

## Worksheet #1: A Change from Solar to Wind Energy

1. An ocean wave's source of energy comes from the \_\_\_\_\_.
2. The \_\_\_\_\_ is a good example for showing how the sun's energy (solar) can be converted into the energy of motion (or kinetic energy).
3. Describe at the molecular level, what four steps are needed to create air circulation?
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
  - d. \_\_\_\_\_
4. The cycle that causes cooler air to replace warmer, rising air is commonly known as \_\_\_\_\_.
5. Indonesia suffers from problems such as \_\_\_\_\_.
6. Circle one: When observing the atmosphere, *cooler/warmer* air always replaces *warmer/cooler* air.
7. At the equator, the temperature of the air is \_\_\_\_\_, which causes the cool air to \_\_\_\_\_.
8. Convection is when...  
\_\_\_\_\_  
\_\_\_\_\_
9. What is a Hadley cell? Where can one be observed?

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